

Recovery Plan Action Status

Plan Name: White River Spinedace, *Lepidomeda albivallis*, Recovery Plan

Plan Status: Final

Plan Date: 28-Mar-94

Lead Agency: USFWS

Lead Office: Nevada Fish And Wildlife Office

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861-6300)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.1.1	Prevent migration of nonnative fishes into the flag springs system	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Fish barriers constructed to limit non-native fish invasions.
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.1.2	Develop nonnative eradication plan.	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Predator and Competitor Control	Species Expert	
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.1.3	Implement nonnative eradication plan	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	Nevada Department of Wildlife	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Costs to be determined.
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.2.1	Prepare emergency refugia plan	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation, Management: Other, Management: Planning, Management: Predator and Competitor Control, Management: Reintroduction	Internal Technical Assistance, Species Expert	Habitat restoration project and Safe Harbor Agreement completed with private landowner to reintroduce spinedace at Indian Spring
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.2.2	Implement emergency refugia plan	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation, Management: Reintroduction	Internal Technical Assistance, Species Expert	Costs to be determined.
White River spinedace (<i>Lepidomeda albivallis</i>)	1	1.3.1	Determine life history and habitat requirements	Ongoing Current	FY 2000 - FY 2004		Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Migration, Research: Population Surveys	Internal Technical Assistance, Species Expert	BRD was previously identified as "FWS-RES", the lead agency in the Recovery Plan.

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White River spinedace (Lepidomeda albivallis)	1	1.3.2	Determine species interactions	Not Started			Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: General, Research: Habitat Requirements, Research: Habitat Status, Research: Population Surveys	Species Expert	BRD was previously identified as "FWS-RES", the lead agency in the Recovery Plan. Spinedace observed feeding on desert sucker spawn (spring 2009, but observed earlier per G. Scoppettone).
White River spinedace (Lepidomeda albivallis)	1	1.3.3	Conduct population viability analysis	Not Started			U.S. Geological Survey, Biological Resources Division	Research: General	Species Expert	BRD was previously identified as "FWS-RES", the lead agency in the Recovery Plan.
White River spinedace (Lepidomeda albivallis)	1	1.3.4	Develop habitat management plan	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ecological Services Division	Management: Habitat Maintenance and Manipulation, Management: Planning, Management: Reintroduction	Internal Technical Assistance, Species Expert	Habitat restoration planning and implementation was completed for Indian Spring through the Partners for Fish and Wildlife Program. *USFWS has replaced NDOW as the lead agency for this task. **Change in the Responsible Parties from the Recovery Plan.
White River spinedace (Lepidomeda albivallis)	1	1.3.5	Implement habitat management plan	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Costs to be determined. Habitat management is constantly being analyzed for the Flag Springs system. **Change in the Responsible Parties from the Recovery Plan.
White River spinedace (Lepidomeda albivallis)	1	1.4.1	Develop population monitoring plan	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys	Species Expert	**Change in the Responsible Parties from the Recovery Plan.

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White River spinedace (Lepidomeda albivallis)	1	1.4.2	Implement population monitoring plan	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Migration, Research: Other Information, Research: Population Surveys, Research: Predation, Research: Reintroduction	Contract	Population monitoring occurs twice yearly. **Change in the Responsible Parties from the Recovery Plan.
White River spinedace (Lepidomeda albivallis)	2	2.1	Protect habitat at Preston Big Spring and Lund Spring	Planned	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife, U.S. Geological Survey, Biological Resources Division	Acquisition: Easement, Acquisition: Fee Title, Acquisition: Management Agreement, Management: General, Management: Habitat Maintenance and Manipulation, Management: Reintroduction	Internal Technical Assistance	Costs to be determined. Negotiations with private landowners have been ongoing over the last four years and we have not been successful at convincing them that a Safe Harbor and the Partners for Fish and Wildlife Program will assist them with dealing with the endangered fish. **Change in the Responsible Parties from the Recovery Plan.
White River spinedace (Lepidomeda albivallis)	2	2.2	Develop habitat rehabilitation plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	NDOW developed plan for implementation in 2009 under Section 6 program.

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White River spinedace (Lepidomeda albivallis)	2	2.3	Implement habitat rehabilitation plans	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Costs to be determined. Restoration at Flag Springs is anticipated in late 2009. In late 2009 Middle Flag springbrook was realigned back to its natural channel. The system is reequilibrating (in 2010).
White River spinedace (Lepidomeda albivallis)	2	2.4	Develop reintroduction plan	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation, Management: Planning	Internal Field Assistance	Discussions at RIT and among FWS, NDOW, & USGS biologists are underway (2009).
White River spinedace (Lepidomeda albivallis)	2	2.5	Implement reintroduction plan	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance, Species Expert	Costs to be determined.
White River spinedace (Lepidomeda albivallis)	2	2.6.1	Develop population monitoring plan for reestablished populations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Nevada Department of Wildlife	Management: General, Management: Reintroduction	Internal Field Assistance, Species Expert	
White River spinedace (Lepidomeda albivallis)	2	2.6.2	Implement population monitoring plan	Ongoing Current	FY 2000 - FY 2004		Nevada Department of Wildlife	Management: General, Management: Planning, Management: Reintroduction, Other: Information and Education, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Internal Technical Assistance	Total cost not stipulated in the final recovery plan. NDOW is currently monitoring population twice per year (2009).